Module 7 – The Brain

1. Jeremy was accidentally struck in the base of his brain by a baseball bat. His heart and breathing stopped immediately. The blow probably struck Jeremy’s:

a. medulla.

b. amygdala.

c. temporal lobe.

d. hippocampus.

2. The \_\_\_\_ directs incoming messages from all of a person’s senses except for the sense of \_\_\_\_\_.

a. limbic system; sight

b. hypothalamus; hearing

c. cerebellum; taste

d. thalamus; smell

3. Which component of the limbic system plays an essential role in the formation of new memories?

a. amygdala

b. hippocampus

c. hypothalamus

d. thalamus

4. To demonstrate that brain stimulation can make a rat violently aggressive, Professor Brown should electrically stimulate the rat’s:

a. amygdala.

b. cerebellum.

c. medulla.

d. reticular formation.

5. The corpus callosum is a band of neural fibers that:

a. controls the glands and muscles of the internal organs.

b. directs the muscle movements involved in speech.

c. enables the left hemisphere to control the right side of the body.

d. transmits information between the cerebral hemispheres.

6. Michelle had a lobotomy (a surgical technique) in which her complete frontal lobe was removed. Michelle should have difficulties in:

a. her visual processing.

b. planning and judgment.

c. voluntary movements.

d. registering body sensation.

7. The surgical removal of a large tumor from Allen’s occipital lobes results in extensive loss of brain tissue. Allen is most likely to suffer some loss of:

a. language comprehension.

b. muscular coordination.

c. speaking ability.

d. vision.

8. The current popular idea that some people are right-brained and some are left-brained:

a. has no basis in psychological research.

b. is an exaggeration of research on hemispheric differences.

c. is completely accurate according to psychological research.

d. makes no sense because the brain is one thing, not divided into two left and right parts.

9. A patient with damage to Broca’s area of the brain would probably have difficulty:

a. expressing thoughts in spoken language.

b. expressing thoughts in written language.

c. recognizing a family member’s face.

d. understanding what someone else says.

10. Michael, due to uncontrollable seizures, had his corpus callosum cut. He is being tested at a local university by Dr. Gazzaniga. In the test Michael is shown a picture of a baseball in his left visual field. Based on studies, which of the following should Michael be able to do?

a. verbalize that he saw a baseball and write out the word “baseball” with his right hand

b. not be able to verbalize that he saw a baseball, but be able to write out the word “baseball” with his left hand

c. verbalize that he saw a baseball and write out the word “baseball” with his left hand

d. not be able to verbalize that he saw a baseball, but be able to write out the word “baseball” with his right hand

1. Name the three parts of the limbic system.
2. Read the story about Phineas Gage on page 116-117. In your own words explain what happened to Gage.
3. Write a Mnemonic device to remember Wernickes area and Brocas area.